

WATER DISTRICT 34

November 15, 2000

P.O. Box 53
Mackay, Idaho 83251

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NOV 22 2000

Department of Water Resources

Tim Luke
Department of Water Resources
1309 North Orchard
P. O. Box 83720
Boise, ID 83720-0098

Dear Tim:

I appreciate your review of the final shrink measurement from the Hatchery Canal shrink study. As you pointed out in our phone conversation, there were indeed errors in the shrink calculation. We have recalculated the shrink for each date and the correct numbers are below.

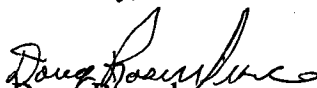
Diversion	05-22-00	06-22-00	07-12-00	07-27-00	08-16-00	09-19-00
Hatchery Head	669"	592"	579"	512"	549"	448"
Stoecklein	65"	0"	176"	23"	0"	0"
Johnson/Reno	87"	87"	0"	64"	64"	0"
Unger 1	91"	93"	82"	84"	84"	84"
Unger 2	63"	63"	59"	49"	49"	49"
Unger 3	150"	141"	124"	151"	135"	Off
Unger Weir	**	113"	21"	25"	88"	119"
Shrink	32%	16%	20%	22%	24%*	44%*

* Water was running into the pond on these days.

**Measurements taken prior to weir placement

Thank you for your prompt attention to this matter.

Sincerely,


 Doug Rosenkrance
 Watermaster

DR:stn

 Cc: Mark Gates
 Terry Scanlan, Scanlan Engineering
 Charles Wilkens, 6X Ranch
 Blake Quinn
 Scott Johnson
 Robert Unger
 James P. Speck, Speck & Aanestad

*should get
classification on*

 *
 *

Tyler 11-24-00

WATER DISTRICT 34

P.O. Box 53
Mackay, Idaho 83251

November 9, 2000

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NOV 14 2000

Department of Water Resources

Tim Luke
Department of Water Resources
1309 North Orchard
P. O. Box 83720
Boise, ID 83720-0098

Dear Tim:


As requested by the water users on the Hatchery canal, I have completed my measurements of the canal for the 2000 season. Below are the final measurements and shrink percentages for your review.

Diversion	05-22-00	06-22-00	07-12-00	07-27-00	08-16-00	09-19-00
Hatchery Head	669"	592"	579"	512"	549"	448"
Stoecklein	65"	0"	176"	23"	0"	0"
Johnson/Reno	87"	87"	0"	64"	64"	0"
Unger 1	91"	93"	82"	84"	84"	84"
Unger 2	63"	63"	59"	49"	49"	49"
Unger 3	150"	141"	124"	151"	135"	Off
Unger Weir	0"	113"	21"	25"	88"	119"
Shrink	23%	16%	20.5%	23%	24%*	56%*

* Water was running into the pond on these days.

Please let me know if you have any questions.

Sincerely,


Doug Rosenkrance
Watermaster

DR:stn

Cc: Mark Gates
Terry Scanlin, Scanlin Engineering
Charles Wilkens, 6X Ranch
Blake Quinn
Scott Johnson
Robert Unger
James P. Speck, Speck & Aanestad

→ 0" per Doug R., 11/14/00

Upper Hatchery Canal Measurements and Reach Loss Calculations
Measurements by Doug Rosenkrance, Watermaster, Water District 34
 (Units of Measurement = Miners Inches)

Diversion	05-22-00	06-22-00	07-12-00	07-27-00	08-16-00	09-19-00	
Hatchery Head	669	592	579	512	549	448	
Stoecklein	65	0	176	23	0	0	
Johnson/Reno	87	87	0	64	64	0	
Unger 1	91	93	82	84	84	84	
Unger 2	63	63	59	49	49	49	
Unger 3	150	141	124	151	135	0	
Unger Weir	0	113	21	25	88	119	
Shrink (WD34)	23%	16%	20.5%	23%	24%*	56%*	Mean
Calculated Gain	-213	-95	-117	-116	-129	-196	-144
Corrected Shrink	-31.8%	-16.0%	-20.2%	-22.7%	-23.5%	-43.8%	-26.3%

* Water was running into the pond on these days.

Spreadsheet revised by T. Luke, IDWR, 11/15/00